OIPE

DATE 11/06/2001 RAW SEQUENCE LISTING TIME 15:11:40 PATENT APPLICATION: US/09/909,796

Input Set : A:\10799-13 Sequence Listing.txt Output Set: N:\CRF3\11062001\1909796.raw

		JICANT: TAYLOR, Cather LE OF INVENTION: DNA E		ED EUCARYOTIC INITIATION FACTOR-
W> 6 W> 7	HUMA		ID A METHOD FOR CONTROLL	ING APOPTOSIS IN ANIMALS AND
11 <140> CURRENT APPLICATION NUMBER: 09/909,796				
C> 12 <141> CURRENT FILING DATE: 2001-10-15 0				
14	<160> NUMB	BER OF SEQ ID NOS: 21		
		WARE: FastSEQ for Win-	ndows Version 4.0	desired by a subser boson from these trans-
	<:210> SEQ			ν '= • σ ₁ , μ γ
	<211> LENG			
	<212> TYPE			ENTERED
		NISM: Rodent		ENTEDEE
	<220> FEAT			
	<221> NAME	ATION: (33)(497)		
	<400> SEQU	, , ,		
			a aa atg gca gat gat tt	g gae tte 53
29	ouggeotugu	. ,,,,,	Met Ala Asp Asp Le	
30			1 5	•
32	gag aca gg	a gat gea ggg gee tea	gec ace tte eca atg ca	g tgc tca 101
			Ala Thr Phe Pro Met Gl	
34	1	.0 15	5 20	
36	gca tta cg	ıt aag aat ggt ttt gtg	g gtg ete aag gge egg ee	a tgt aag 149
37	Ala Leu Ar	g Lys Asn Gly Phe Val	. Val Leu Lys Gly Arg Pr	o Cys Lys
38	25	30	35	
			act ggc aag cat ggc ca	
		_	Thr Gly Lys His Gly Hi	
4.2		45	50	55 t gaa gat 245
			ttt act ggg aag aaa ta Phe Thr Gly Lys Lys Ty	- 3 3
46	vai his Le	tu vai Giy ile Asp ile	65	70
	atc tgc cc		gat gtc ccc aac atc aa	
			Asp Val Pro Asn Ile Ly	33
50	,	75	80 8	
52	gat ttc ca	g ctg att ggc atc cag	gat ggg tac cta tcc ct	g ctc cag 341
53	Asp Phe Gl	n Leu Ile Gly Ile Gln	Asp Gly Tyr Leu Ser Le	ı Leu Gln
54	9	0 95	100	
			e ott ogt otg oot gag gg	
			Leu Arg Leu Pro Glu Gl	y Asp Leu
58	105	110	115	127
			gac tgt gga gaa gag at	
			Asp Cys Gly Glu Glu Il	
	120	125	130	135 c aag gee 485
			r gag gca gct gtt gca ato . Glu Ala Ala Val Ala Ilo	- 2 2
66	ini vai Le	140	145	150
00		140	747	3.50

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```
537
68 aty gca aaa taa ctgqcttcca qqqtqqcqqt qqtqqcaqca qtgatccatq
69 Met Ala Lys *
72 agectacaga ggecectece ceagetetgg etgggeeett ggetggacte etatecaatt 597
73 tatttgacgt tttattttgg ttttcctcac cccttcaaac tgtcggggag accetgccct 657
74 teacctaget ecettageea ggeatgaggg agecatggee ttggtgaage tacetgeete 717
75 ttetetegea geeetgatgg gggaaaggga gtgggtaetg cetgtggttt aggtteeeet 777
76 ctcccttttt ctttttaatt caatttggaa teagaaaget gtggattetg geaaatggte 837
77 ttgtgtcctt tateccacte aaacccatet ggtcccctgt tetecatagt cetteacece 897
78 caageaceae tgacagactg gggaccagee eeetteeetg eetgtgtete tteecaaaee 957
79 cetetatagg ggtgacaaga agaggagggg gggaggggac aegateeete eteaggeate 1017
80 tgggaaggee ttgeeceeat gggetttaee ettteetgtg ggetttetee etgaeacatt 1077
81 tottaaaaat caaacctgaa taaaactaca agtttaatat gaaaaaaaaa aaaaaaaaa 1137
82 aa
84 <210> SEQ ID NO: 2
85 <211> LENGTH: 154
86 <212> TYPE: PRT
87 <213> ORGANISM: Rodent
89 <400> SEQUENCE: 2
90 Met Ala Asp Asp Leu Asp Phe Glu Thr Gly Asp Ala Gly Ala Ser Ala
92 Thr Phe Pro Met Gln Cys Ser Ala Leu Arg Lys Asn Gly Phe Val Val
                                    25
               2.0
94 Leu Lys Gly Arg Pro Cys Lys Ile Val Glu Met Ser Thr Ser Lys Thr
95
           35
                               40
95 Gly Lys His Gly His Ala Lys Val His Leu Val Gly Ile Asp Ile Phe
       50
                            55
                                                60
98 Thr Gly Lys Lys Tyr Glu Asp Ile Cys Pro Ser Thr His Asn Met Asp
                                            75
100 Val Pro Asn Ile Lys Arg Asn Asp Phe Gln Leu Ile Gly Ile Gln Asp
                                         90
101
                    85
102 Gly Tyr Leu Ser Leu Leu Gln Asp Ser Gly Glu Val Arg Glu Asp Leu
103
                100
                                     105
104 Arg Leu Pro Glu Gly Asp Leu Gly Lys Glu Ile Glu Gln Lys Tyr Asp
                                120
                                                     125
            115
106 Cys Gly Glu Glu Ile Leu Ile Thr Val Leu Ser Ala Met Thr Glu Glu
       130
                            135
108 Ala Ala Val Ala Ile Lys Ala Met Ala Lys
109 145
                        150
112 <210> SEO ID NO: 3
113 <211> LENGTH: 462
114 <212> TYPE: DNA
115 <213> ORGANISM: Rodent
117 <400> SEQUENCE: 3
118 atggcagatg acttggactt cgagacagga gatgcagggg cctcagccac cttcccaatg 60
119 caqtqctcaq cattacqtaa qaatggcttt gtggtgctca aaggccggcc atgtaagatc 120
120 gtcgagatgt ctacttcgaa gactggcaag cacggccacg ccaaggtcca tetggttggt 180
121 attgacatet ttaetgggaa gaaatatgaa gatatetgee egteaactea taatatggat 240
122 gtccccaaca tcaaaaggaa tgacttccag ctgattggca tccaggatgg gtacctatca 300
123 ctgctccagg acagcgggga ggtacgagag gaccttcgtc tccctgaggg agaccttggc 360
```

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```
124 aaggagattg agcagaagta cgactgtgga gaagagatee tgateaeggt getgtetgee 420
     125 atgacagagg aggcagetgt tgcaatcaag gecatggcaa aa
     127 <210> SEQ ID NO: 4
    128 : 211> LENGTH: 462
    129 - 212 > TYPE: DNA
    130 - 213 > ORGANISM: Rodent
    132 - 220 > FEATURE:
    133 <221> NAME/KEY: misc_feature____
    134 <222> LOCATION: (1)...(462)
    135 :223> OTHER INFORMATION - A, T, C or G
    137 <400> SEQUENCE: 4
    138 argqcaqacq aaattqattt cactactgga-gatqccggqq cttccagcac ttaccctatg 60
    139 caqtqctcqq ccttqcqcaa aaacqqcttc gtqqtqctca aagqacqacc atqcaaaata 120
    140 gtgqaqatqt caacttccaa aactqqaaaq catqqtcatq ccaaqqttca ccttgttgga 180
    141 attgatattt teaegggeaa aaaatatgaa gatatttgte ettetaetea eaacatggat 240\,
    142 gitecaaata ttaagagaaa tgattateaa etgatatgea tteaagatgg ttacetttee 300
    143 otgotgacag aaactggtga agttegtgag gatettaaac tgecagaagg tgaactagge 360
    144 anagnaatag agggaaaata caatgcaggt gaagatgtac aggtgtctgt catgtgtgca 420
W--> 145 atgagtgaag aatatgetgt agecataaaa eeetnngcaa at 👝 🎉
    147 <210> SEQ ID NO: 5
    148 <211> LENGTH: 462
    149 <212> TYPE: DNA
    150 <213> ORGANISM: Rodent
    152 <400> SEQUENCE: 5
    153 ataqcaqatq atttggactt cgagacagga gatgcagggg cctcagccac cttcccaatg 60
    154 cagtgeteag cattacgtaa gaatggtttt gtggtgetea aaggeeggee atgtaagate 120
    155 gtcqaqatqt ctacttcqaa qactqqcaaq catgqccatg ccaaggtcca tctggttggc 180
    156 attgacattt ttactgggaa gaaatatgaa gatatctgcc cgtcgactca taatatggat 240
    157 gtccccaaca tcaaacggaa tgacttccag ctgattggca tccaggatgg gtacctatcc 300
    158 etgetecagg acagtgggga ggtacgagag gacettegte tgeetgaagg agacettgge 360
    159 aaggagattg agcagaagta tgactgtgga gaagagatcc tgatcacagt gctgtctgcc 420
    160 atgacagagg aggcagctgt tgcaatcaag gccatggcaa aa
                                                                           462
    162 <210> SEQ ID NO: 6
    163 <211> LENGTH: 606
    164 <212> TYPE: DNA
    165 <213> ORGANISM: Rodent
    167 <220> FEATURE:
    168 <221> NAME/KEY: CDS
    169 <222> LOCATION: (1)...(456)
    171 < 400> SEQUENCE: 6
    172 gct gtg tat tat tgg gcc cat aag aac cac ata cct gtg ctg agt cct
    173 Ala Val Tyr Tyr Trp Ala His Lys Asn His Ile Pro Val Leu Ser Pro
    174 1
    176 gea etc aca gae gge tea etg ggt gae atg ate ttt tte eat tee tat
    177 Ala Leu Thr Asp Gly Ser Leu Gly Asp Met Ile Phe Phe His Ser Tyr
    178
                      20
    180 aaa aac cca ggc ttg gtc ctg gac atc gtt gaa gac ctg cgg ctc atc
                                                                           144
    181 Lys Asn Pro Gly Leu Val Leu Asp Ile Val Glu Asp Leu Arg Leu Ile
    182
                 35
```

 RAW SEQUENCE LISTING
 DATE: 11/06/2001

 PATENT APPLICATION:
 US/09/909,796
 TIME: 15:11:40

Input Set : A:\10799-13 Sequence Listing.txt
Output Set: N:\CRF3\11062001\1909796.raw

```
184 aac atg cag gee att tte gee aag ege act ggg atg ate ate etg ggt
                                                                    192
185 Asn Met Gln Ala Ile Phe Ala Lys Arg Thr Gly Met Ile Ile Leu Gly
                            55
                                                                    240
188 gga ggc gtg gtc aag cac cac atc gcc aat gct aac ctc atg cgg aat
189 Gly Gly Val Val Lys His His Ile Ala Asn Ala Asn Leu Met Arg Asn
190 65
                        70
192 gga gct gac tac gct gtt tat atc aac aca gcc cag gag ttt gat ggc
                                                                    288
193 Gly Ala Asp Tyr Ala Val Tyr Ile Asn Thr Ala Gln Glu Phe Asp Gly
                     85
                                        90
196 toa qao toa qqa qoo egg coa gat gag got gto too tgg ggo aag ato
                                                                    336
197 Ser Asp Ser Gly Ala Arg Pro Asp Glu Ala Val Ser Trp Gly Lys Ile
                                   105
200 cgg atg gat gca cag cca gta aag gto tat gct gat gca tot ctg gtt
201 Arg Met Asp Ala Gln Pro Val Lys Val Tyr Ala Asp Ala Ser Leu Val
20.2
            115
                               120
204 tie eee tig eig gig get gag aca tie gee eaa aag gea gat gee tie
                                                                    432
205 Phe Pro Leu Leu Val Ala Glu Thr Phe Ala Gln Lys Ala Asp Ala Phe
                           135
                                               140
208 aga get gag aag aat gag gae tga geagatgggt aaagaeggag gettetgeea
209 Arg Ala Glu Lys Asn Glu Asp *
210 145
                       150
212 cacctttatt tattatttgc ataccaaccc ctcctgggcc ctctccttgg tcagcagcat 546
216 <210> SEQ ID NO: 7
217 <211> LENGTH: 151
218 <212> TYPE: PRT
219 <213> ORGANISM: Rodent
221 <400> SEOUENCE: 7
222 Ala Val Tyr Tyr Trp Ala His Lys Asn His Ile Pro Val Leu Ser Pro
223 1
                    5
224 Ala Leu Thr Asp Gly Ser Leu Gly Asp Met Ile Phe Phe His Ser Tyr
225
               20
                                   25
226 Lys Asn Pro Gly Leu Val Leu Asp Ile Val Glu Asp Leu Arg Leu Ile
228 Asn Met Gln Ala Ile Phe Ala Lys Arg Thr Gly Met Ile Ile Leu Gly
                           55
230 Gly Gly Val Val Lys His His Ile Ala Asn Ala Asn Leu Met Arg Asn
                       70
                                           75
232 Gly Ala Asp Tyr Ala Val Tyr Ile Asn Thr Ala Gln Glu Phe Asp Gly
233
                   85
                                       90
234 Ser Asp Ser Gly Ala Arg Pro Asp Glu Ala Val Ser Trp Gly Lys Ile
               100
                                   105
236 Arg Met Asp Ala Gln Pro Val Lys Val Tyr Ala Asp Ala Ser Leu Val
                               120
           115
238 Phe Pro Leu Leu Val Ala Glu Thr Phe Ala Gln Lys Ala Asp Ala Phe
                           135
240 Arg Ala Glu Lys Asn Glu Asp
241 145
                       150
244 <210> SEQ ID NO: 8
```

RAW SEQUENCE LISTINGPATERT APPLICATION: **US/09/909,796**DATE: 11/06/2001

TIME: 15:11:40

Input Set : A:\10799-13 Sequence Listing.txt
Output Set: N:\CRF3\11062001\I909796.raw

```
245 <211> LENGTH: 453
           246 <212> TYPE: DNA
           247 <213 > ORGANISM Rodent
          249 <400 - SEQUENCE: 8
          250 tecquiqtatt actiqqqeeca qaaqaaccac atecetiqtigt thagteeege actiacagae 60
          251 ggct@gctgg gcgacatgat cttcttccat tcctacaaga accegggcct ggtcctggac 120
          252 atcortiques acctiques to catcaucaca cappicated titique and the cattigues acctiques to the catting acctiques to the catting the catting accting the catting accting the catting the catting the catting the catting accting the catting the catting
          253 atcattetgg geggggggt ggteaageae cacattgeea atgceaacet catgeggaac 240
          254 ggggeegaet acgetgttta cateaacaea geecaggagt ttgatggete tgacteaggt 300
          255 decedacead acquigetit etectgggge auguteggg tggatgeaca gecegteaug 360
          256 gtotatgotg acgoetocot ggtottococ otgottgtgg otgaaacott tgoccaqaaq 420
          257 atggatgeet teatgeatga gaagaacgag gae
          259 <210> SEQ ID NO: 9
          260 <211 > LENGTH: 20
          261 <212> TYPE: DNA
          262 <213> ORGANISM Artificial Sequence
          264 <220> FEATURE:
          265 <223 - OTHER INFORMATION: Primer
          267 <221 - NAME/KEY: misc_feature
          268 <222> LOCATION: (1)...(20)
          269 \times 223 > \text{OTHER INFORMATION: } n = A, T, C \text{ or } G
          271 <400> SEQUENCE: 9
W--> 272 tosaarachg gnaagcaygg TV
                                                                                                                                                             20
           274 <210 > SEQ ID NO: 10
          275 < 211> LENGTH: 42
          276 <212> TYPE: DNA
          277 <213> ORGANISM: Rodent
          279 <220> FEATURE:
          280 <223> OTHER INFORMATION: Primer
          282 -: 400> SEQUENCE: 10
          283 gogaagette eatggetega gttttttttt tttttttt tt
                                                                                                                                                            42
          285 <210> SEQ ID NO: 11
          286 <211> LENGTH: 972
          287 <212> TYPE: DNA
          288 <213> ORGANISM: Rodent
          290 <220> FEATURE:
          291 <221> NAME/KEY: CDS
          292 <222> LOCATION: (1)...(330)
          294 <400> SEOUENCE: 11
          295 teg aag ace ggt aag cae gge cat gee aag gte eat etg gtt ggt att
          296 Ser Lys Thr Gly Lys His Gly His Ala Lys Val His Leu Val Gly Ile
          299 gat att tit act ggg aag aaa tat gaa gat atc tgc ccg tcg act cat
          300 Asp Ile Phe Thr Gly Lys Lys Tyr Glu Asp Ile Cys Pro Ser Thr His
          301
                                              20
                                                                                       25
          303 aac atg gat gtc ccc aac atc aaa agg aat gat ttc cag ctg att ggc
                                                                                                                                                            144
          304 Asn Met Asp Val Pro Asn Ile Lys Arg Asn Asp Phe Gln Leu Ile Gly
                                     35
                                                                               40
          307 atc cag gat ggg tac cta tcc ctg ctc cag gac agt ggg gag gta cga
                                                                                                                                                            192
```

VERIFICATION SUMMARY

DATE: 11/06/2001

PATENT APPLICATION: US/09/909,796

TIME: 15:11:41

Input Set : A:\10799-13 Sequence Listing.txt Output Set: N:\CRF3\11062001\I909796.raw

L 5 M:283 W: Missing Blank Line separator, <120> field identifier L 12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L 145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L.272 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9